

IN THE SPECIFICATION

[0027] In certain embodiments, the poly(arylene ether) composition may comprise polyamides as disclosed in U.S. Patent Nos. 5,981,656 and 5,859,130, polyarylene sulfides as disclosed in U.S. Patent No. 5,290,881, polyphthalamides as disclosed in U.S. Patent No. 5,916,970, polyetheramides as disclosed in U.S. Patent No. 5,231,146, polyesters as disclosed in U.S. Patent No. 5,237,005, polyetherimides and combinations of the foregoing.

[0047] SA120, a poly(arylene ether) having an intrinsic viscosity of 0.12 g/dl measured in chloroform at 25°C was obtained from GE Plastics in pellet form and ground to reduce the particle size. 20 wt% ground SA120 was then melt blended with 80 wt% of higher intrinsic viscosity poly(arylene ether) (as shown in Table 2). The comparative examples employ 20 wt% crystal polystyrene (XPS) employed as a flow promoter/plasticizer. The melt viscosity of the examples was measured by multipoint capillary rheometry on a Kayeness Rheometer at 340°C using a 4 minute dwell time. Values for the shear rate are in reciprocal seconds and for melt viscosity are in Pascal-seconds. The data is shown in Figure 1 and Table 2. Figure 1 demonstrates the remarkably similar viscosity between compositions containing low intrinsic viscosity poly(arylene ether) (SA120) and comparable compositions containing a polystyrene plasticizer. The heat deflection temperature (in °C) was measured at 264 psi using ASTM D648 and the data is shown in Figure 2.

Table 1

Example	1	2	3	4*	5*	6*
SA120	X	X	X			
Nevacore 2272 XPS				X	X	X
Polyarylene ether (IV=0.30)	X			X		
Polyarylene ether (IV=0.40)		X			X	
Polyarylene (IV=0.46)			X			X

*Comparative examples